## **WOULD DO WITHOUT PAY IF HIS** ROAD SPOILED IN THREE YEARS

## of Merits of Concrete as Paving Material

"In order to introduce concrete pavement in Honolulu, if it were possible for the cement of our company to reach this market, I would be pleased to construct a mile of pavement here as a demonstration, to be paid for by the city at the end of two or three years if entirely satisfactory, and to be paid for by the cement company if not. I would be perfectly a project and immediately go ahead sprinkling and there is no dust. with the construction."

That concrete undoubtedly would now in use is the belief of Ralph E. is laying it as fast as it can afford it. Bristol, secretary and treasurer of the Ogden Portland Cement Company of Ogden, Utah, and the foregoing statement, made by him today, demonstrates his willingness to substantiate his claims.

Mr. Bristol is a son-in-law of Chapin A. Day, former treasurer of Marshall Field & Company of Chicabo. Both Mr. Day and Mr. Bristol are visiting in Honolulu with their families, and intend to remain until the middle of March, Mr. Day has visited here four times. This is Mr. Bristol's second

"The cement manufacturers' association of the United States, called the Portland Cement Association." sible to give one's opinion in the matsays Mr. Bristol, "has been putting ter, and as I take it from your letdown concrete roads for the last 10 ter you simply wish a short statement. years, and every road laid down un- I will try to render it. der its auspices has been carefully "You first state that your work is no upkeep expense for the first five

Regarding road and street conditions in Honolulu Mr. Bristol is of the opinion that there is a constant effort here to build roads without any permanent results. Politics, he declares, certainly must be back of such condi-

Satisfactory As Others. "From the standpoint of the cement manufacturer," he goes on, "we are naturally competing with all other tical concrete, such as is well known the public generally, for foundation shining example of concrete road. work, big dams and reservoirs and if such a thing is possible. sidewalks should make it apparent to the property owner or to any city administration that a concrete street, I think that a concrete base under faithfully constructed in accordance some conditions is the ideal road, alwith the proper specifications, will be though no concrete road in California fully as satisfactory as any other that I am aware of has been constructtype of material.

cement cannot possibly reach Hono- wearing surface of some kind. The lulu on account of the competitive con- thicker the wearing surface, the more ditions on the coast. So I have no satisfactory the road. On the other personal interest in the local situa- hand, we personally have built sevtion, except that I know that con- eral thousand yards of roads in this Ga., in clashes between whites and crete pavement, where properly con- state of asphalt concrete or warren- negroes. structed, brings permanent success, ite, which have been giving entire and has brought it all over the United satisfaction. I visited yesterday States. Six years ago there were some 40,000 yards of Warrenite pave-500,000 barrels of cement used in the ment that was laid under our super-United States in the construction of vision some six years ago. This paveroads and pavement, while in 1915 ment has never had five cents spent nearly 9,000,000 barrels were used for on it to date and looks exactly the

Mr. Bristol calls attention to the

No Objection to "Tapping." roads and for highways accustomed used with an asphalt top, or with the additional investment. an asphalt, bitulithic, wood block, or inch concrete base, with a two-inch crete here only 4 inches thick. asphalt or some other satisfactory top

Mr. Bristol believes that if Kalakaua evenue was paved with concrete from great deal wiser investment than a King street to the park, it would re- 4-inch base. I would, however, cover quire absolutely no attention for a the concrete with 2 inches of bituriod of at least three years, and lithic or warrenite top.

exceed \$1.60. Effort to Maintain Streets. "This being my second trip to Ho- class of pavement laid around Portnolulu," says Mr. Bristol, "I have no- land, but in almost every instance it

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R. E. Bristol, Ogden Man, Tells that if concrete were used in paving note, is to be paved with asphalt Between 11 o'clock and 12 o'clock as consistently as they are now workfact that they would not have to go over the same street constantly year be a surprise to the citizens."

Concrete pavement is not slippery, Mr. Bristol explains. It absorbs all willing to put up a bond covering such pavement. It does not require

Utah is one of the several states

(Continued from page one)

checked by an engineering associa- of necessity all done under the astion representing 95 per cent of all the sessment basis, and that ten-year cement manufacturers in the United bonds are issued in payment for your States. Real concrete roads and street work. Under these conditions phalt macadam would not give you a his car, "but it is practically all unpavements have proved to be the best I do not think you would be justified in the market. The association re- in laying any pavement that would ferred to works in harmony with the not last longer than the life of your bureau of standards of the United bonds. You state first that Kalakaua States in order to get specifications avenue is to be paved to the extent worked out. Concrete street paving of 35,000 square yards, and that the demn the construction of a macadam Heeia section and hitting buildings as clerks in the 1st Infantry Post Exand road building is in its infancy, and original proposition was to pave this road thereon. While a concrete base with an upward and lifting force. where construction work, including with warrenite, but at the last meet- with a two-inch top may represent a Cannery Roof Damaged. proper specifications, has been carried ing of the Board of Supervisors it out faithfully roads and pavements was changed to a 6-in, concrete road, have proved os satisfactory and so I believe this is a mistake on the part permanent that there is practically of the supervisors. We in California run, for I have no hesitancy in stat- the corrugated iron cupola on the years, and we haven't any idea of the concrete roads, and, to say the least, renite or bitulithic pavement, it will cannery on the other side of the island' length of life of a concrete road as they are far from satisfactory. The initial experiments in this line were made by the United States government in the Presidio in San Francisco. This is a concrete road laid in slabs of about 25 feet in length for the full width of the road, which I think is 16 feet. On a recent trip over this road in an automobile I noticed at every expansion joint at each side warrenite pavement, and it has given AD WETTEST of the road the concrete is badly cracked and deteriorating to a marktypes of roads and pavements that do ed extent. This road was built under strict inspection, and according to the specifications of the United States to the engineering fraternity and to government, and should have been a

"Do not misunderstand me as being opposed to concrete roads-I am not. ed and is giving complete satisfaction "As far as I am concerned, our unless it has been covered with a same as when it was laid.

"The state highway in California is magnificence and beauty in construct almost entirely constructed of a contion of the Kauikeolani building, oc- crete base, and in some places is a cupied by the Hawaiian Trust Com- straight concrete road with no wearpany, which is built of concrete. He ing surface. Every one here believes that within the next four or five years it will be necessary for the highway "While as cement manufacturers we commission to cover all of the sofavor plain concrete pavement, we spe- called concrete roads with some type city simple material for all ordinary of wearing surface, preferably bitulithic or warrenite. to only light traffic. There is no rea- the latter two types are a little more son why, if property owners desire it expensive than the so-called Topeka or if the traffic is extremely heavy, and other types of wearing surface. I six-inch concrete base should not personally believe they are well worth

"We have just recently finished brick surface. Any one of these two 60,000 yards of this type of pavement course pavements on a proper con- for the City of Livermore. This is crete base is thoroughly satisfactory, a 2-inch bitulithic surface on a 5-inch but much more expensive than a six- concrete base, and I venture to say inch, one-course plain concrete pave this pavement will be in excellent ment, which I consider is amply suf- condition 20 years from now, and it for ordinary street paving in with proper care will last indefinitefully, except in the extremely ly. I also believe that the state highheavy traffic districts of the business way commission has made a serious sections, where I would favor a six- mistake in building the roads of con-

"I also note your supervisors contemplate building a concrete road 6 inches thick. This, to my mind, is a

the upkeep for a period of from 10 to So far as I know there has been 15 years would be apparently small. no complaint to be found with eithe cost for a square yard for a six- er of these types of pavement laid on inch one course pavement would not the coast, particularly California, the last few years. There were one or two faults found with some of this ticed an apparent continued effort on the part of the city administration to maintain their streets, and I am sure probably know, the county commissioners of Multnomah let a contract (the largest single contract ever letin the United States west of the Mississippi river) for 70 miles of county highway at a cost of approximately \$950,000. This highway is to be constructed of bitulithic pavement throughout, and was decided upon after the most rigid investigation by the Chamber of Commerce of Portland

and various other civic bodies.

"I might add to the above by saying that I am an ardent believer in a concrete base with not less than a two-inch asphaltic wearing surface; the wearing surface to be composed of either warrenite, bitulithic or some

"Number two, Beretania- street, I Cold Winds-More Rain. ing with the present types, the city mind it is absolutely impossible to the thermometer dropped slightly. would be gradually covered with a build a road by this method which Cold winds will probably bring on still satisfactory and permanent type of will last during the life of your ten- more rain. This morning at 6 o'clock street pavement, and, because of the year bond. Oil macadam or asphaltic the wind reached a velocity of 48 macadam has been used quite exten- miles an hour. sively in the southern part of the for light traffic, its life is very limit. The means are as follows: ed, and the city of Oakland will be moisture and has other qualities which compelled within the next three years will not be found in other types of to repaye a great many miles of June, .89; July, .86; August, .97; Sep-The county of Los Angeles was one of the first counties in California to which have experimented with con- bond itself for good roads, and ex. had been reported at the city engiprove far better material for the con- crete roads with a marked degree of pended the sum of \$3,000,000 neer's office. struction of roads and sidewalks in success. That state started out with a in county highways several years ago. Honolulu than the types of material trial half-mile of pavement, and now Most of the highways constructed by out by the November storm, the asthem were an oil or asphaltic macadam of either the penetration or other methods, they being the pioneers in the county highway construction in California. They naturally endeavored to build the greatest number of miles of road with their money, rather than the best roads possible, and I understand that the maintenance charge on some of these roads is now exceeding 5 per cent per anwill not construct any more of this articular type.

> roads unless the same are to be paid of water. for in cash, and the construction is to type of pavement. I would be of the automobile. opinion that with your moist climate great deal of satisfaction. You also der water." state that the above streets are sublittle greater outlay than you had an- Roofs were torn from many houses, are detailed in their stead. your bonds."

In a supplementary letter Sloan

"I might state that we have built great many thousand yards of pavecrete whatever, merely four or fiveinch asphalt concrete, so-called, or rific wind complete satisfaction. - I think the question of concrete is largely one of sub-grade. In some localities it is essential that a wearing surface be placed upon a concrete base; in other places, where sub-grade is good, a concrete base is not necessary, but my idea of a concrete road is that it must be covered with some surface which has more or less 'give' to it-in other words, it must have a cushion on it, particularly if it is to be used for extensive automobile traffic or truck without a cushion top.

Two more negroes were killed and Turned Over Three Times. four negro lodge buildings burned in

## NOTICE

From and after date, the Horseshoe Bend road bridge, connecting Kamehameha IV road and Kalihi street, will be closed to traffic pending re-

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(Continued from page one)

other well-known type of construct it has held for the past several days, only a very slight change being noted.

macadam, penetration method. To my today the wind swung to the west and

That the present storm is excessive after year, the paved area of Hono state of California, and also to a very is shown by figures computed by the date is assigned to Company B. lulu would, at the end of five years, large extent in the City of Oakland, weather bureau, showing the mean While this makes a good, cheap road rainfall by months in the last 11 years.

> January, 3.81; February, 2.62; March, 2.49; April, 1.33; May, 1.06; streets of this type of construction. tember, 1.66; October, 1.00; November, 2.96; December, 4.15. Total, 23.80, Up to noon today no large damage

> > Nuuanu street which was ripped phalt being torn off by the water, is serve. again washed out. All of the former holes which were merely filled in with geant, vice Schonder, transferred to rock until a more permanent job could be done upon them, have washed out, the rocks being deposited in the ditches alongside.

Waialae Ranch Flooded. Waialae road is a running stream two and one-half feet deep and a mile long, according to word telephoned in num. It is needless to say that they to the Star-Bulletin office shortly after noon today, by Paul R. Isenberg. Mr. Isenberg declared it is the worst downpour that he has ever seen in that "I am opposed to the construction section. A large portion of Waialae of either asphalt or oil macadam ranch, his property, is under four feet

Much damage was done yesterday be upon residence streets where the on the other side of the island in the traffic is very limited, and abutting Heeia district, according to R. S. property is of a value which will not Chase, road engineer at Hakipuu, who permit of the construction of a higher arrived in the city this morning by

"You see the road is still passable," and extremely heavy rains, that an as- laughed Chase as he climbed from

Wind recorded here about 10 o'clock ject to heavy automobile traffic and yesterday morning at 49 miles an hour more or less truck hauling. This, in evidently gathered force as it swept my opinion, should be reason to con- over the mountains, dropping to the pany L, are relieved from special duty

ticipated for the initial cost, it will the Japanese groceries and small more than reimburse you in the long stores suffering heavily. A portion of have built several hundred miles of ing that if this type is made of war- roof of the Libby, McNeill & Libby last more then twice the length of was torn off and sent flying helter- vice Warren, furloughed to the Army skelter by the wind.

Luckily no damage to the stored fruit inside was done, according to F. W. Macfarlane, president, today. Laborers' camps at the cannery sufferment in this state without any con- ed heavily, the structures of wood and visional Machine Gun Company, and fron being at the mercy of the ter-

> Mr. MacFarlane said today that it will be difffcult to estimate the damage until the buildings have been reconstructed.

> Describing the scene at the Libby cannery today Engineer Chase says that the mauka bunkhouse, a long building, has been veritably twisted around by the force of the wind, at an angle of at least 45 degrees. The makai bunkhouse has also suffered.

Small boats are tied up at the available landings and are waiting until calmer weather before venturing outhauling. A rigid pavement will not side. When the hard wind struck the time, the remainder fortunately being stand up under this type of usage high waves yesterday offshore in the at breakfast in another building. None neighborhood the sight is said to have been wonderful.

Houses here and there were toppled the western section of Early county, over. One cottage belonging to a laborer on the Hakipuu section was overturned three times by the storm the laborer, his wife and three children being in it at the time. They suffered only from slight damages.

> No great damage had been done to the pineapple fields this morning, ers and considerable scaffolding at the though much more rain threatens to wash them badly.

High winds were noted last night on the peninsula at Pearl Harbor, and algaroba trees, which grow so thickly in the neighborhood, were down in large numbers this morning. The The morning train from Pearl City was delayed for nearly an hour today owing to trees and branches having blown near or across the track.

Engine Off Track. Several trees have been blown cross the track and telephone lines are down. All trains are behind time, Relay messages today brought in word of a freight engine being off the track in the Waianae district. Several landslides have interrupted traffic, though up to late this afternoon these had been miner and were easily cleared away. It is supposed that the engine is off the track oring to a washout though only meager reports had reached the railway office today. Night trains will not be run, for tonight at

Sam Keliinoi, acting road overseer, despatched two men up to Tantalus yesterday to drain the road there, which is already in an impassable condition, and protect it as much as possible from the further onslaught of the

Keliinoi says his forces are well organized, and that with the storm drains well cleared, it will take almost a cloudburst to do the city streets

It was found necessary yesterday to withdraw the road gang that had sen praced at work to repair Noke Head road in Waialae. The Rapid Transit bus is laid off until such time as the road is in a better condition. Adolph street, in Manoa valley, is

said to have suffered from the heavy drenching of the last tew gays, and to be washed out badly. Kalihi residents say that the Kalihi stream is again a roaring torrent. due to heavy rains in the headwater district. Taro in large quantities is floating down the stream. Puunui

STAR-BULLETIN GIVES YOU

in a stream.

section is flooded as usual, water

SCHOFIELD BARRACKS, Jan. 17. Maj. Francis E. Lacey, 1st Infantry, having reported for duty this date is assigned to command of the 2nd Bat-

First Lieut. Fred W. Pitts. 1st Infantry, is transferred from Company, B to Company F. First Lieut. E. F. Rice, 1st infantry, is transferred from Company F to

Company B. Second Lieut. Roy M. Jones, 1st In

fantry, having reported for duty this First Lieut. Walter E. Pridgen, ist Infantry, is transferred from Company E to Company A.

First Lieut, John D. Burnett, 1st Infantry, having reported for duty this date is assigned to Company E. 20 20

Upon the recommendation of the company commander, the following promotions and appointments are mad. in Company L:

Corpl. John E. Teele, to be sergeant vice Thoesen, transferred to Army Re-Corpl. John W. Smith, to be ser-

the Army Reserve. Corpl. William O'Brien, to be sergeant, vice Stovall, transferred to the

Army Reserve. Pvt. Jesse W. Sutten, to be corporal vice Teele, promoted. Pvt. William J. Wallace, to be cor

poral, vice Smith, promoted. Pvt. Frederick A. Peters, to be corporal, vice O'Brien, promoted.

Second Lieut. Robert T. Snow is detailed as battalion signal officer, 3rd Battalion. Pvt. William S. Meyer, Company M,

is relieved from special duty on the golf course. Pvt. Asa W. Ziekafoose, Company

is relieved from special duty driving lawn mower, and is detailed on special duty on the golf course. Pvt. Patrick McDonald, Machine Gun Company, is transferred from Company L to Company H, and, upon

the recommendation of his provisional company commander, is appointed corporal, vice Mitchell, transferred. Pvt Ernest W. Rodgers, Company G. and Alexander Wershehora, Comchange, and Pvts. Edward Kenny,

Company L, and E. Rose, Company M,

appointment is made in Company M: Pvt. John P. Mundt, to be corporal,

Pvt. Charles E. Boughan, Company K, and Oscar M. Phillips, Company L, are detailed as members of the Prowill report to the commanding officer of that organization for duty.

Upon the recommendation of the romotion is made in Company E: Corpl. Cyrus M. Flick, to be sergeant, vice Wallace discharged.

SCHOFIELD BARRACKS, Jan. 18. -Considerable damage was done by the high winds at Schofield yesterday morning. The barracks of the headquarters detachments, 1st Field Artillery, lost its roof, part of it falling into the building and part being carried several hundred feet away. Only three men were in the building at the of these three men was injured. The building is of the very light box-car type, with rounded roof, similar to the barracks of the 1st Infantry that were demolished by the kona on

Christmas night. The quarters occupied by Chaplain Michael Leneban and Lieut, A. L. P. Johnson, 4th Cavelry, had its roof lifted off yesterday morning. At Castner two 50-foot construction tow-

# Schofield Notes STORAGE

JAMES H. LOV E

CITY TRANSFER COMPANY **PHONE 1281** 

new 1st Infantry ba. racks were torn down by the wind. The damage to canvas was consider able all over the

Pvt. Curtis Beckne ; Company B, 1st Infantry, who was t fied and convicted by special court | nartial on charge of "assault with a de adly weapon with intent to do great be stilly harm, to the prejudice of good o rder and military discipline," has had, his sentence re to the publication of his sentence on mitted and been res' wred to duty. Ad- January 12th, established his innoditional evidence of stained subsequent cence.

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Put them in the living room chandelier and watch the effect.

Note how well the delicate colors in draperies and rugs show up at their true values. Note the soft, agreeable effect on your eyes. More light, too-21/2 times as much, to be exact-but the cost is the same as for the poorer old style light. Worth considering, isn't it? Get a few today.

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Soft blues, greens, grays and old rose that blend beautifully with one another and with furniture of any finish. The 'Sunfasts' are 50 inches wide, and owing to the scarcity of fast-dye stuffs, future shipments will undoubtedly show an advance in cost, but these, having been bought before the rise in cost of raw materials, are sold at moderate prices. \$1.25 and \$1.50 a yard.

The Tapestries are 48 inches wide and are priced at \$1.50, \$1.75 and \$2.25 a yard.

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